

FIGURE 1

APGK12 (SEQ ID NO 1) Replicon RNA compared to I377/NS2-3' Replicon RNA

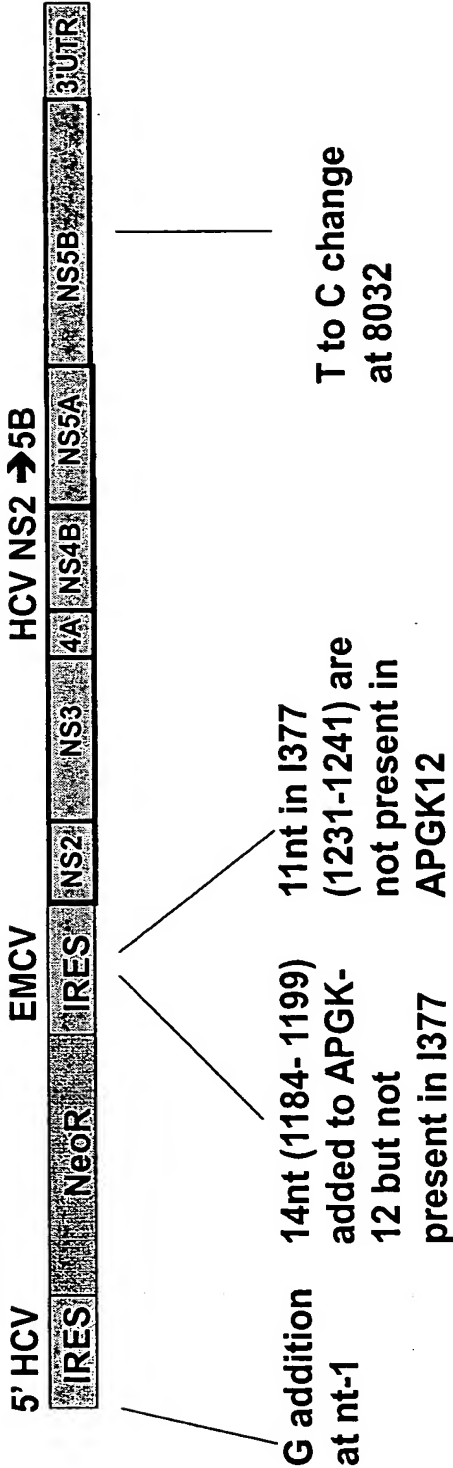
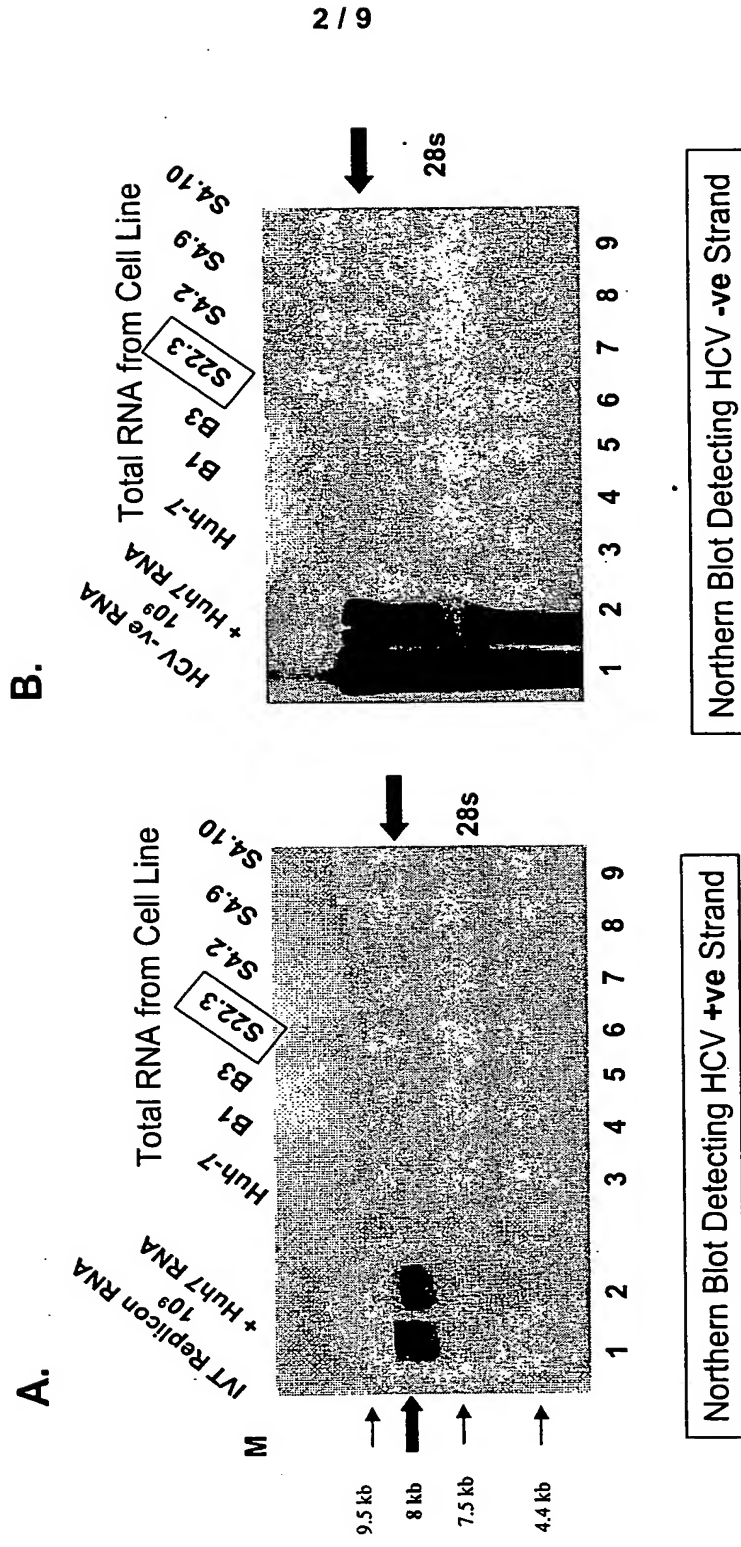


FIGURE 2

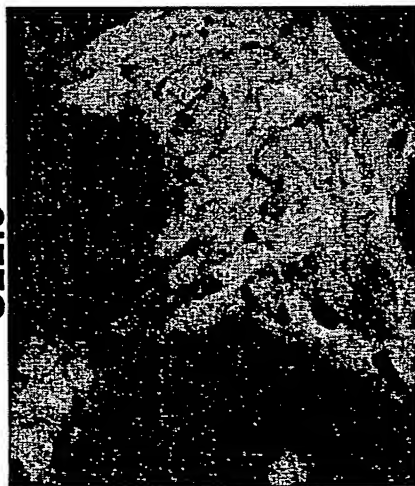


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FIGURE 3

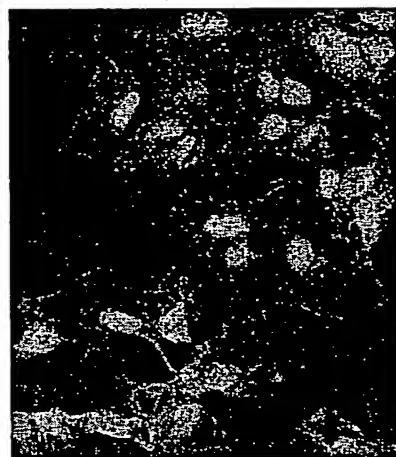
A.

S22.3

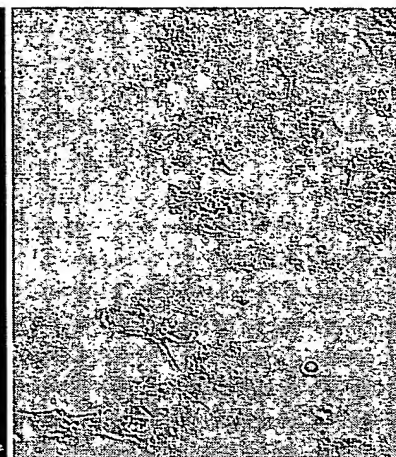
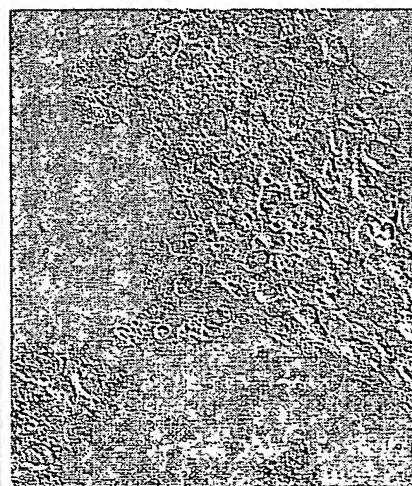


B.

B1



Anti-HCV NS4A  
Immunofluorescence



DIC Microscopy

FIGURE 4

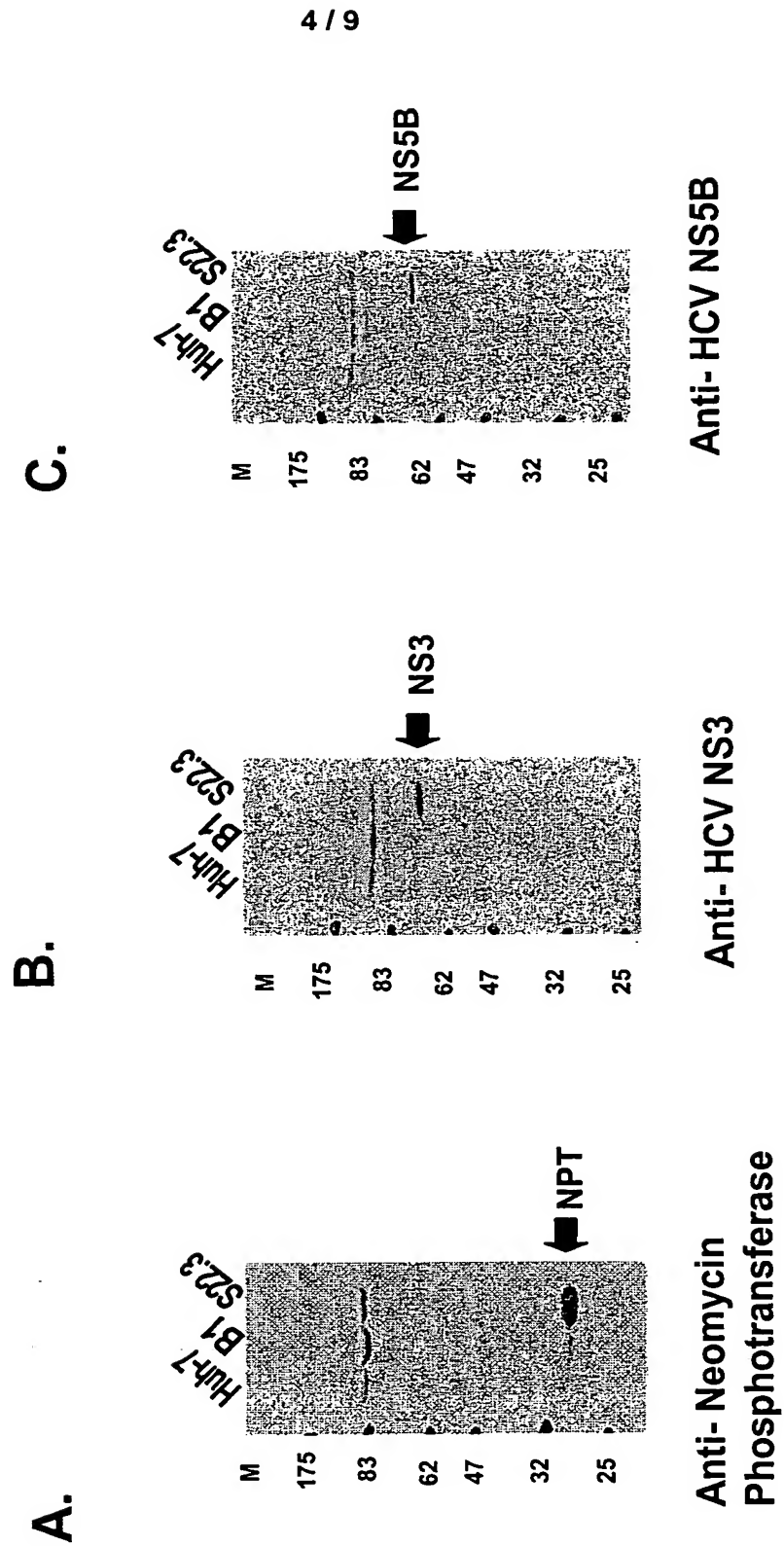


FIGURE 5A

	S 22-3 SEQ ID NO 2	R3 SEQ ID NO. 4	R3-rep SEQ ID NO. 7	R7 SEQ ID NO. 5	R16 SEQ ID NO 6
5'end - FIRST nt (HCV IRES)	G (nt 1) A	G (nt 1) A	-	-	G (nt 1) A
Neo		A (nt 461) G			
EMCV IRES	-	A (nt 1739) G	-	-	-
NS 2					
NS 3	-	G (nt 2778) A A (nt 2840) C A (nt 4052) G	T (nt 2509) C G (nt 2778) A A (nt 2840) C T (nt 3574) C A (nt 4052) G	A (nt 2935) G A (nt 2979) G	A (nt 2816) G A (nt 2979) G
NS 4A	A (nt 446) R	A (nt 446) G	C (nt 4387) T A (nt 446) G C (nt 4507) T		C (nt 4475) T
NS 4B	-	T (nt 4855) C	T (nt 4855) C	-	-
NS 5A	G (nt 5498) T A (nt 6268) R	A (nt 5351) G G (nt 5498) T G (nt 5659) A C (nt 5871) T A (nt 6268) G	A (nt 5351) G G (nt 5498) T G (nt 5659) A T (nt 5839) C C (nt 5871) T A (nt 6115) G	A (nt 5324) G G (nt 5498) T T (nt 6001) C	G (nt 5498) C T (nt 6320) G T (nt 6584) C
NS 5B	-	A (nt 6652) G	-	C (nt 7252) T T (nt 8349) C	-
3'end - last 98 nt					

\*first nt = G from HCV ires

FIGURE 5B

	S 22-3 SEQ ID NO. 2	R3 SEQ ID NO. 4	R3 Rep SEQ ID NO. 7	R7 SEQ ID NO. 5	R16 SEQ ID NO. 6
5'end - FIRST nt (HCV IRES)	G (nt 1) A	G (nt 1) A	-	-	G (nt 1) A
NS 2					
NS 3	-	R (1135) K S (1560) G	R (1135) K S (1560) G	E (1202) G	S (1148) G E (1202) G
NS 4A	K (1691) mix K/R	K (1691) R	K (1691) R		L (1701) F
NS 4B	-	-	-	-	-
NS 5A	G (2042) C	T (1993) A G (2042) C P (2166) L	T (1993) A G (2042) C L (2155) P P (2166) L	I (1984) V G (2042) C	G (2042) R S (2404) P
NS 5B	-	-	-	M (2992) T	-
3'end - last 98 nt					

first a.a. of NS2 = 810

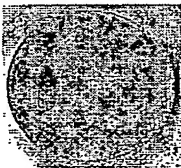
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**FIGURE 6**  
**AMINO ACID SUBSTITUTIONS**

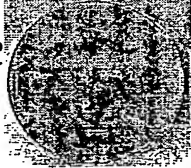
CLONE  
APGK-12

AMINO ACID SUBSTITUTIONS

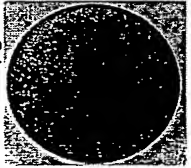
5' HCV		EMCV		HCV NS2→5B				3'HCV		
IRES	NeoR	IREs	NS2	NS3	4A	NS4B	NS5A	NS5B	UTR	
G (nt1) SEQ ID NO 1										
A (nt1) SEQ ID NO 24			-	-	-	-	-	-		
R3 rep A(nt1) SEQ ID NO 25				R(1135)K S(1560)G	K(1691)R	-	T(1993)A G(2042)C L(2155)P P(2166)L			
G(nt1) SEQ ID NO 7				R(1135)K S(1560)G	K(1691)R	-	T(1993)A G(2042)C L(2155)P P(2166)L			



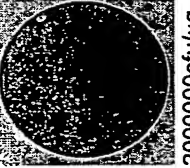
77 cfu/µg



86 cfu/µg



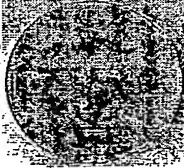
1100000cfu/µg



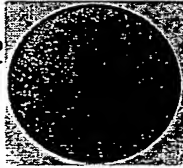
2000000cfu/µg



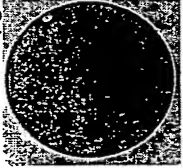
77 cfu/μg



86 cfu/μg



1100000cfu/μg

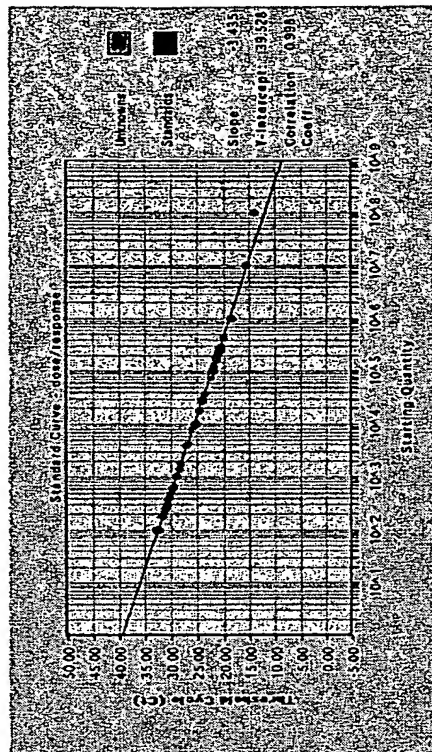
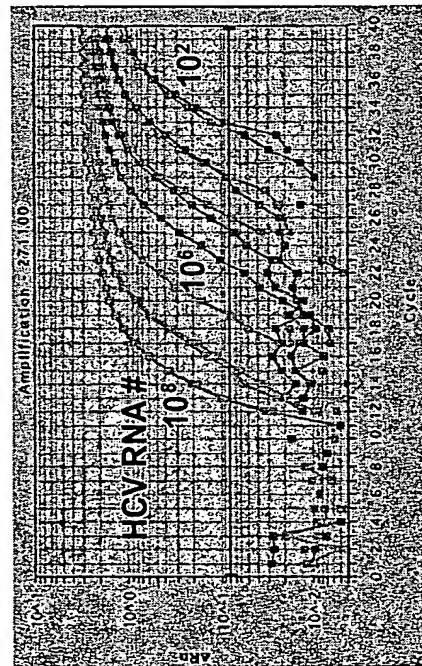


2000000cfu/μg

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FIGURE 7

## HCV-Replicon: RNA Quantification



Ct = Threshold cycle  $\propto$  Starting RNA Quantity



FIGURE 8

